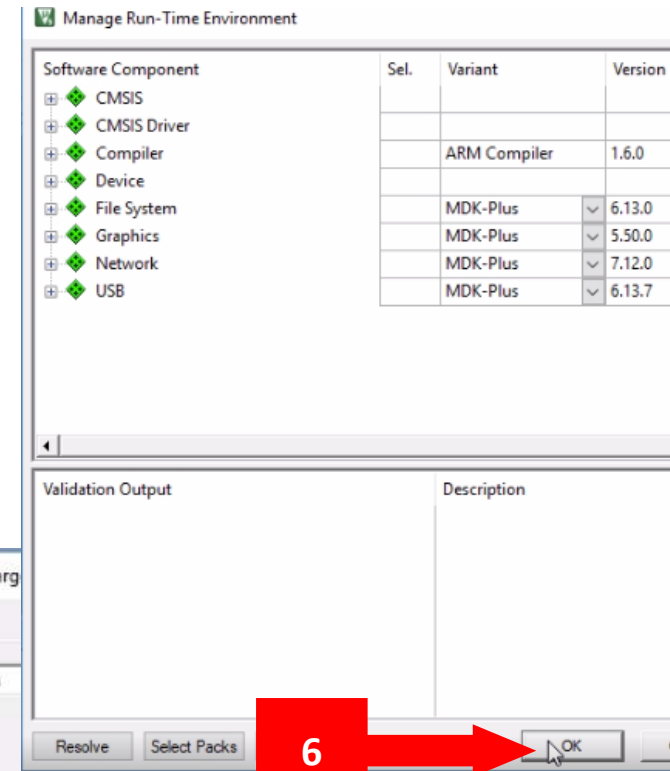
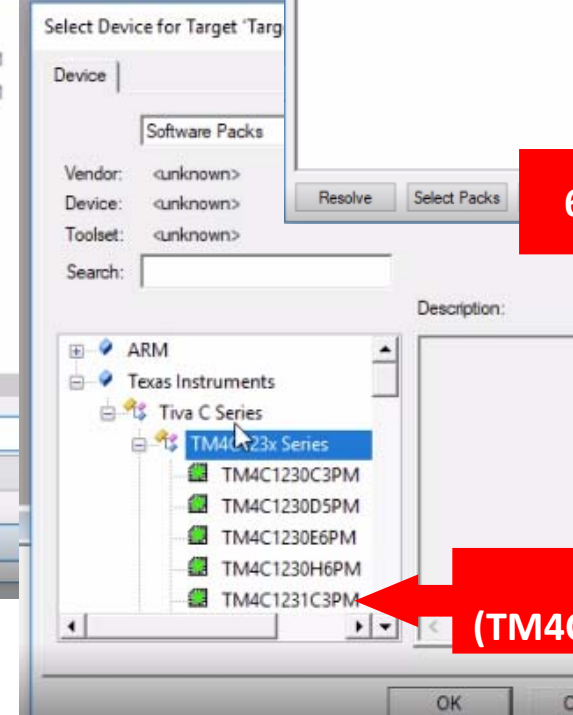
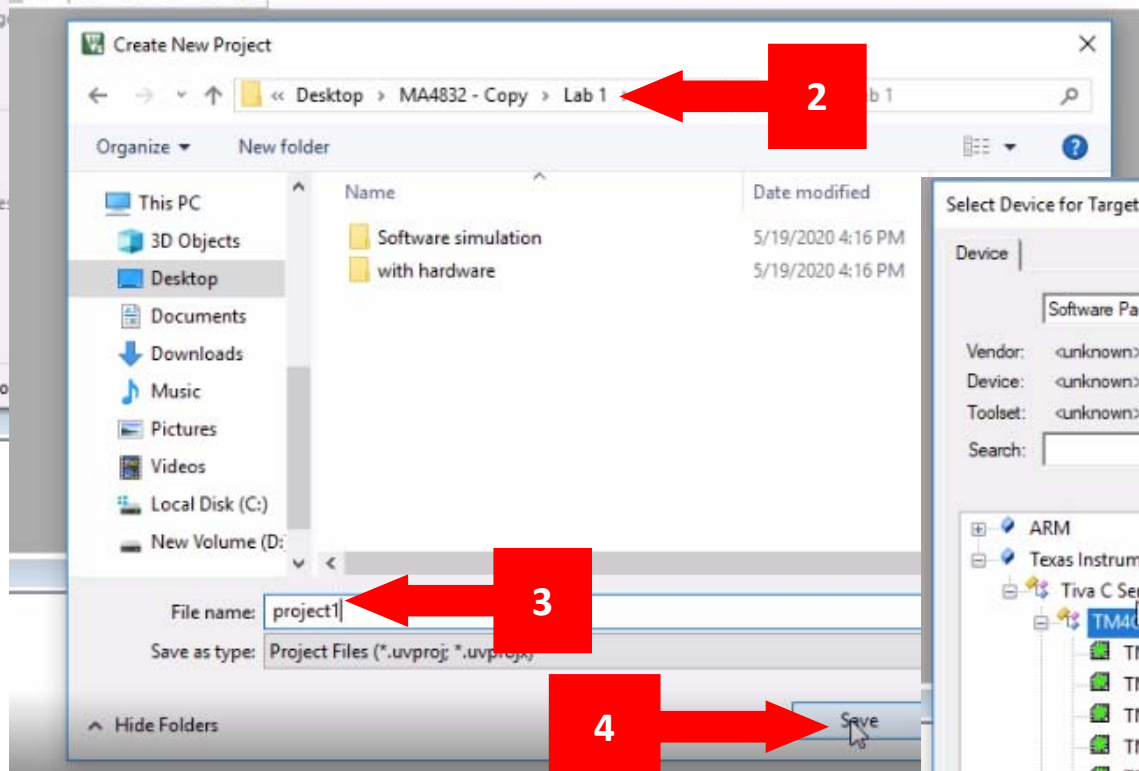
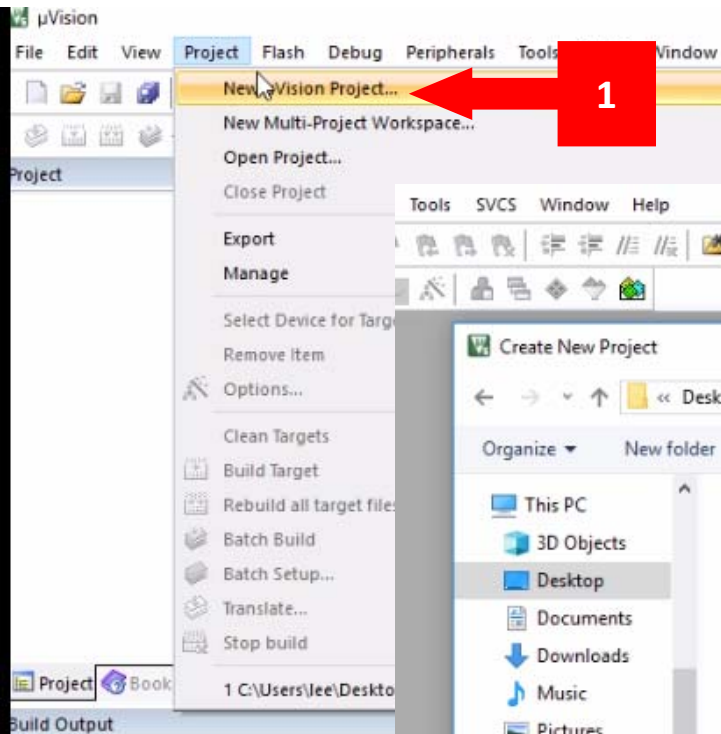


Create a New Assembly Project in Keil uVision5 IDE



Create a New Assembly Project in Keil uVision5 IDE

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Add "prog1.s, startup.s"

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```
ed: Project: project1
compiler 'V5.06 update 6 (build 750)', folder: 'C:\Keil_v5\ARM\ARMCC\Bin'
c 'Target 1'
prog1.s...
assembling startup.s...
linking...
Program Size: Code=660 RO-data=0 RW-data=0 ZI-data=1024
".\Objects\project1.axf" - 0 Error(s), 0 Warning(s).
Build Time Elapsed: 00:00:01
```

Exploring Debugging Functions

The following steps illustrate the process of configuring and starting a debug session in the uVision IDE:

- 1**: Click the **Options for Target...** icon in the toolbar.
- 2**: In the **Options for Target 'Target 1'** dialog, select the **Debug** tab.
- 3**: Select **Use Simulator** under the **Device** tab.
- 4**: Click the **Start/Stop Debug Session** icon in the toolbar. **Or 4** points to the **Debug** menu.
- 5**: Click the **Start/Stop Debug Session** icon in the **Debug** menu.
- 6**: Click the **Step Over** icon in the toolbar. **Repeat 6** indicates this step should be repeated.
- 7**: Click the **Step Over** icon in the **Debug** menu.
- 8**: Click the **Step Over** icon in the **Debug** menu.
- 9**: Click the **Step Over** icon in the **Debug** menu.
- 10**: Click the **Step Over** icon in the **Debug** menu.

The **Options for Target 'Target 1'** dialog shows the following configuration:

- Device**: Target
- Output**: Listing
- User**: C/C++
- Asm**: Asm
- Linker**: Linker
- Debug**: Debug

Use Simulator is selected. The **Settings** tab is active, showing options for **ULINK2/ME Cortex**.

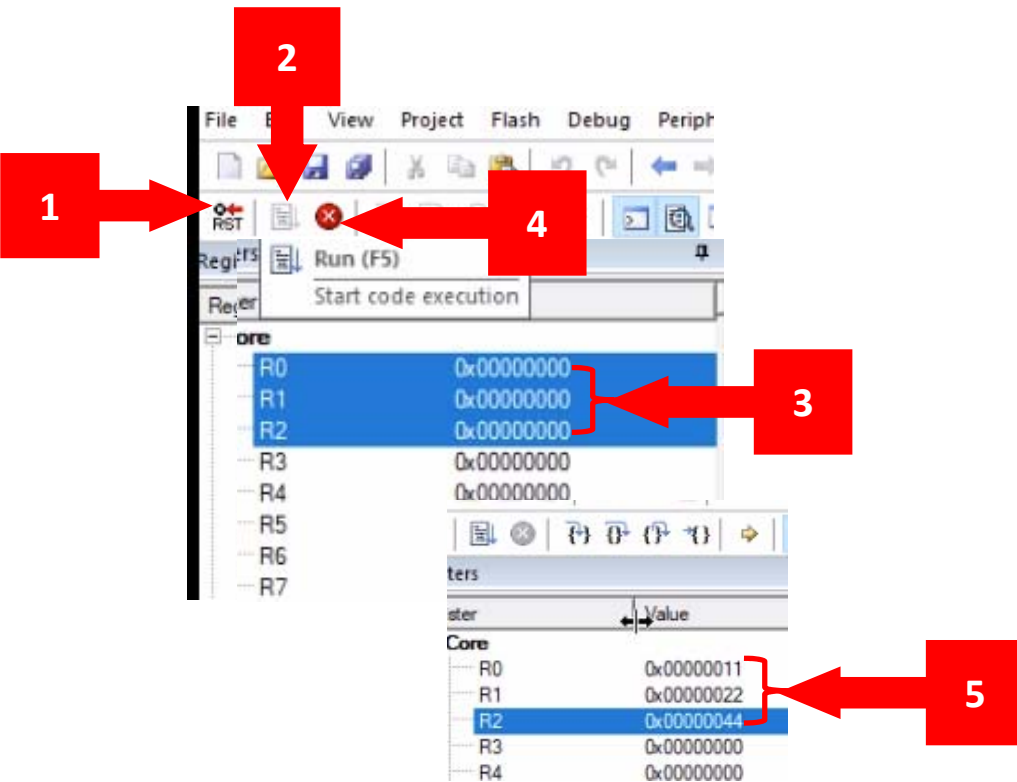
The **Registers** window shows the following values:

Register	Value
R0	0x00000011
R1	0x00000000
R2	0x00000000
R3	0x00000000
R4	0x00000000
R5	0x00000000
R6	0x00000000
R7	0x00000000
R8	0x00000000
R9	0x00000000
R10	0x00000011
R11	0x00000022
R12	0x00000000
R13	0x00000000
R14	0x00000000
R15 (PC)	0x00000000

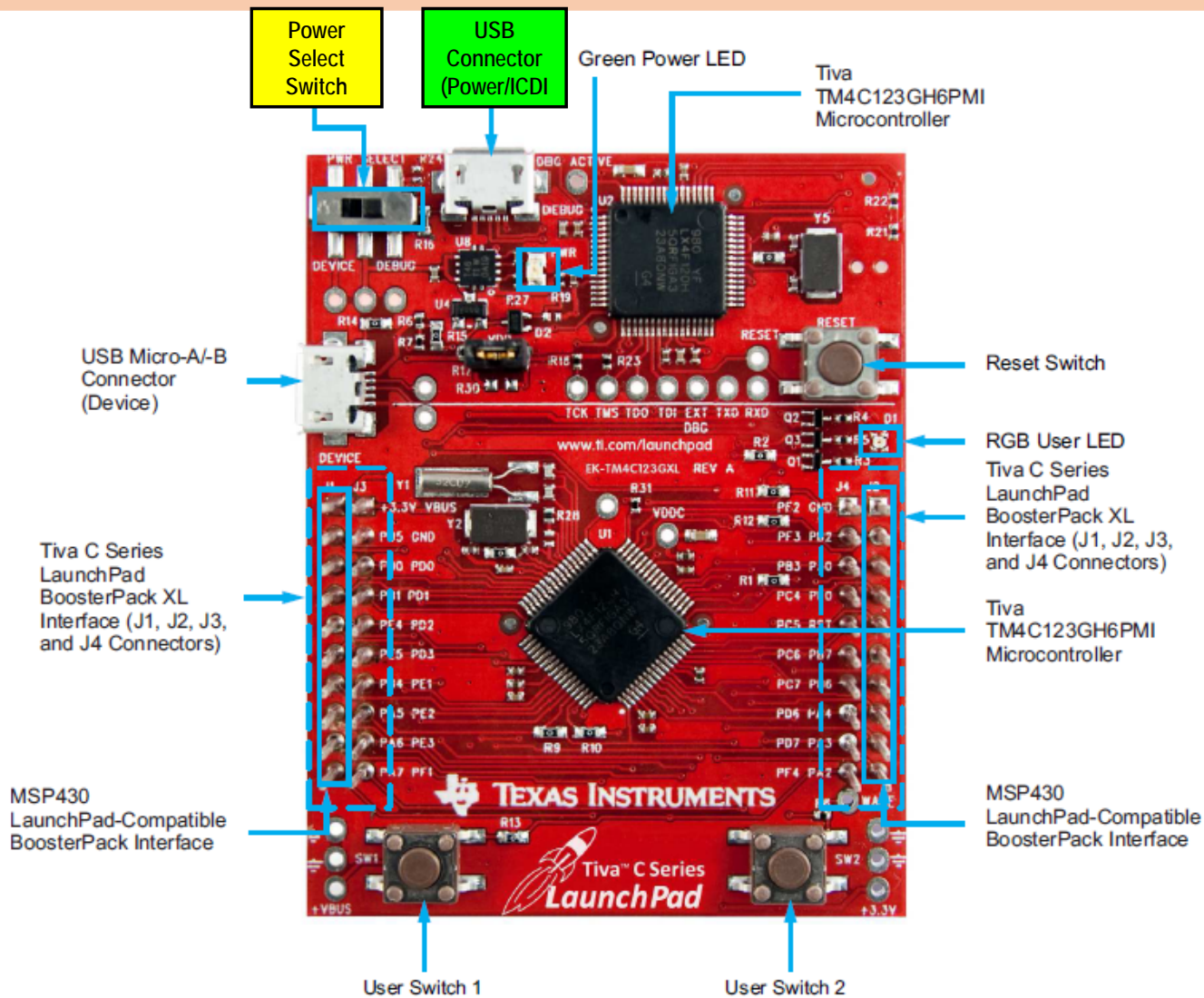
The **Code** window shows the following assembly code:

```
EXPORT Start
AREA prog1, CODE
Start
ENTRY
    MOV r0, #0x1
    LSL r1, r0, #1
    LSL r2, r1, #1
    stop B stop
END
```

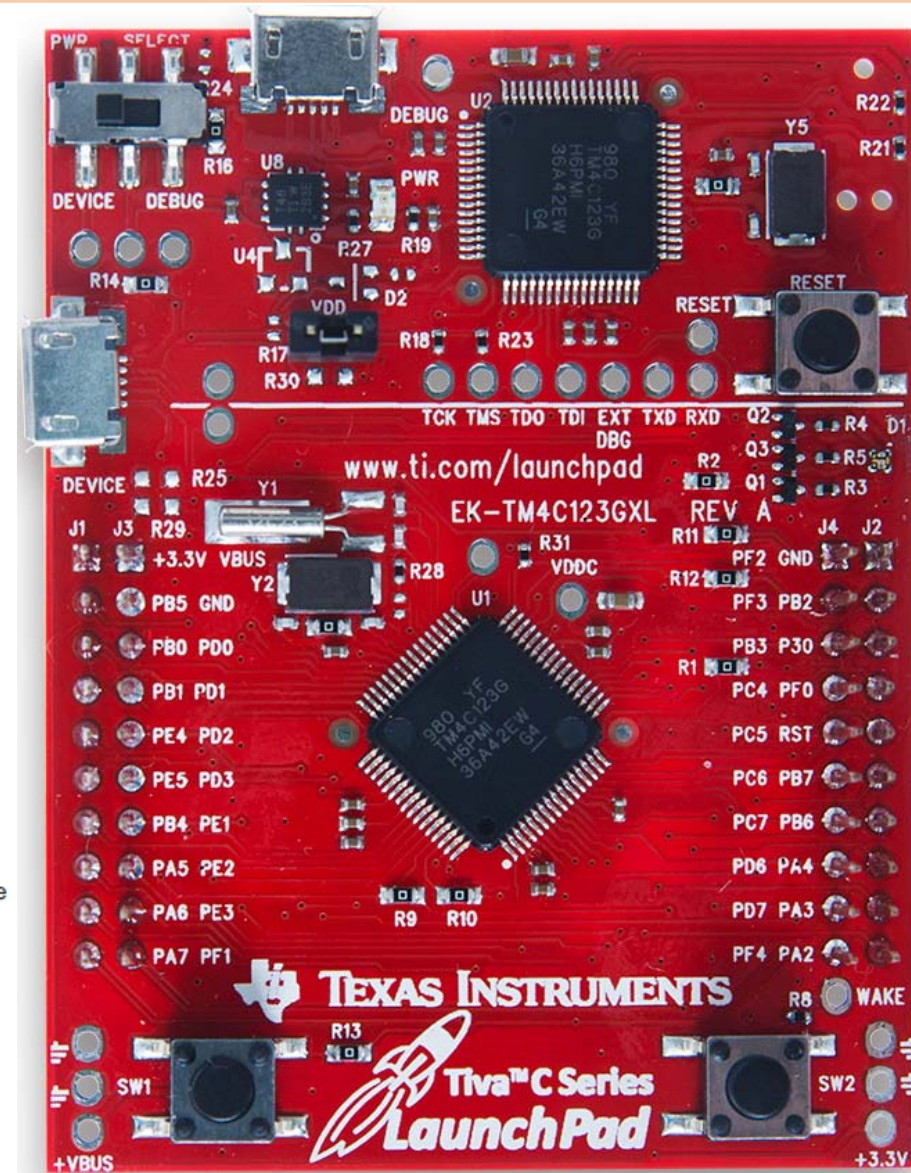
Exploring Debugging Functions



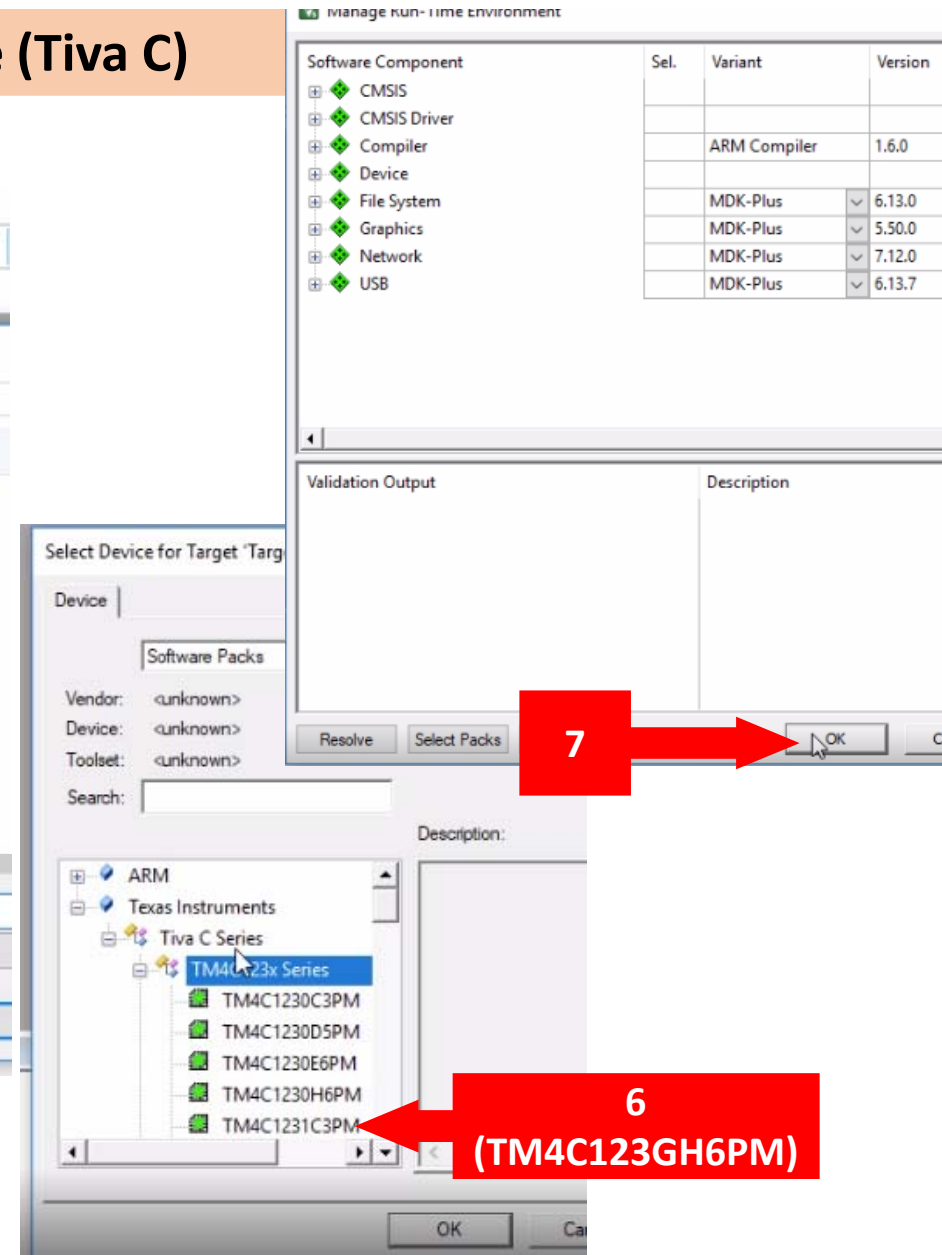
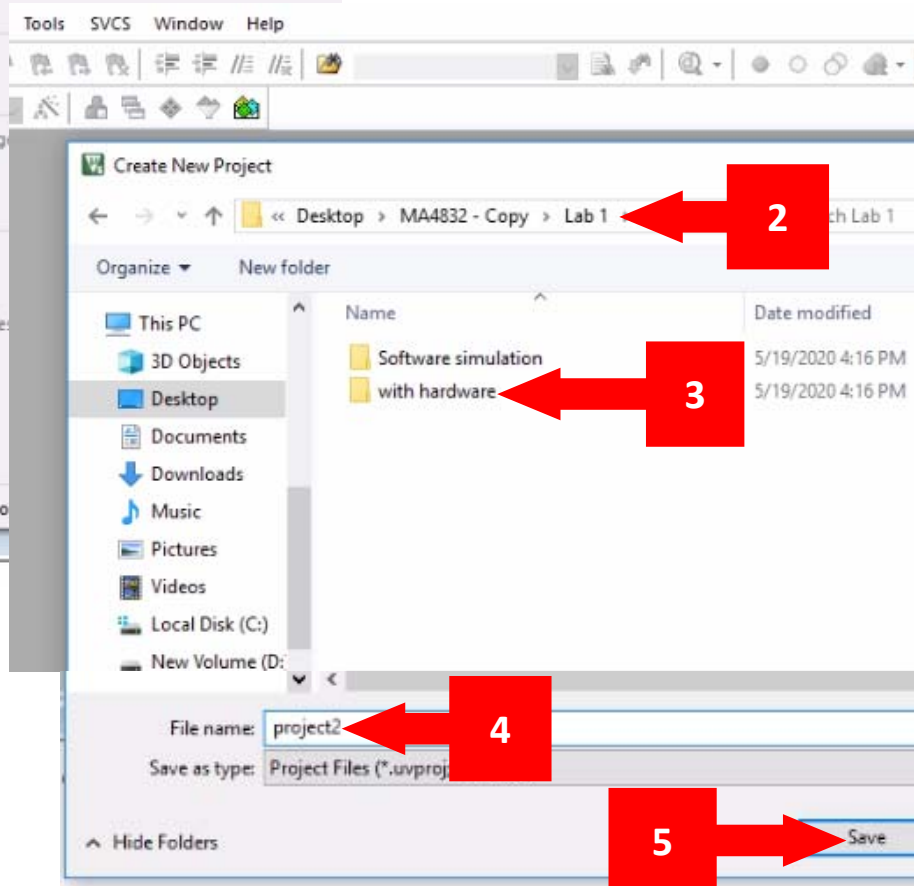
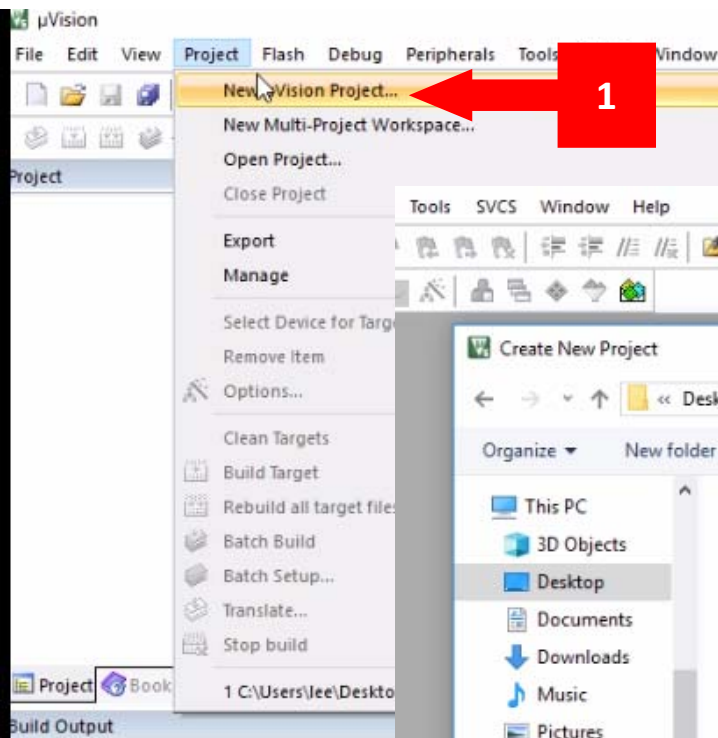
Working with Hardware (Tiva C)



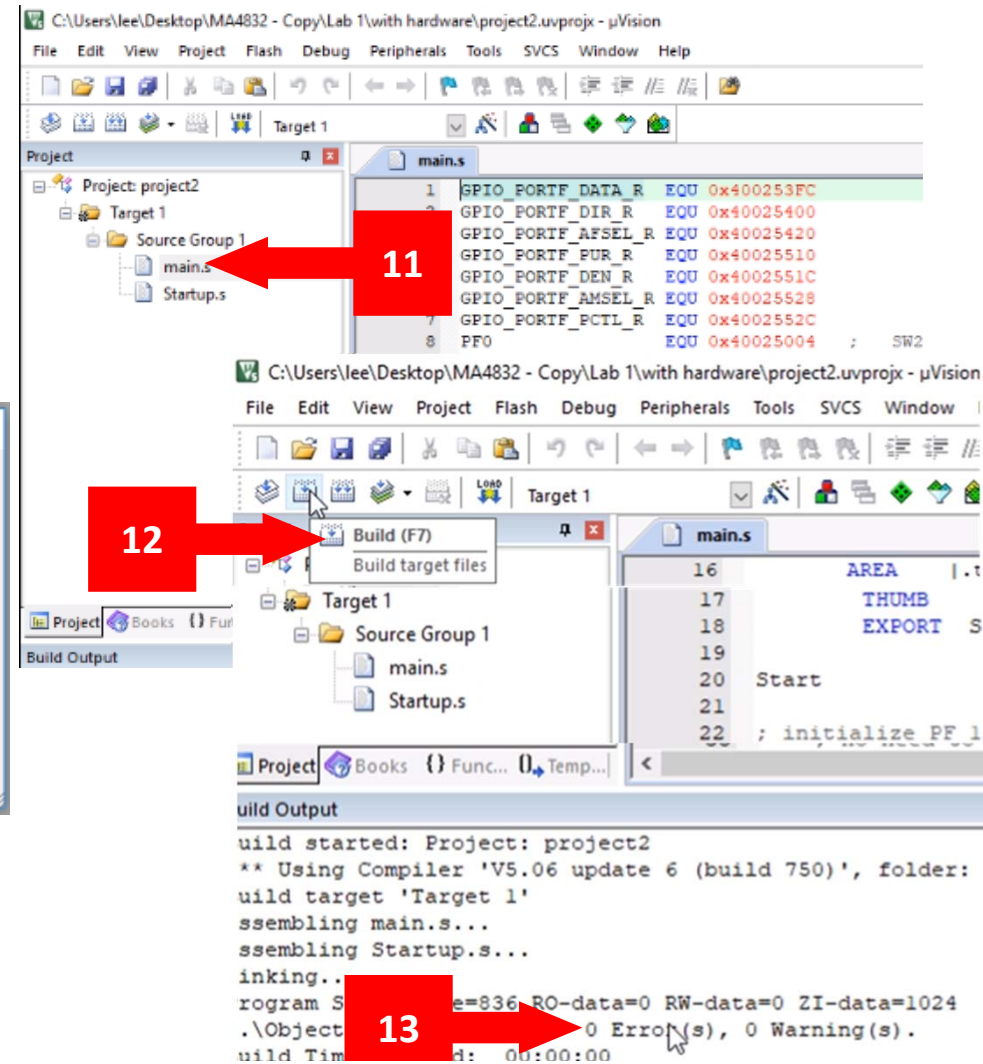
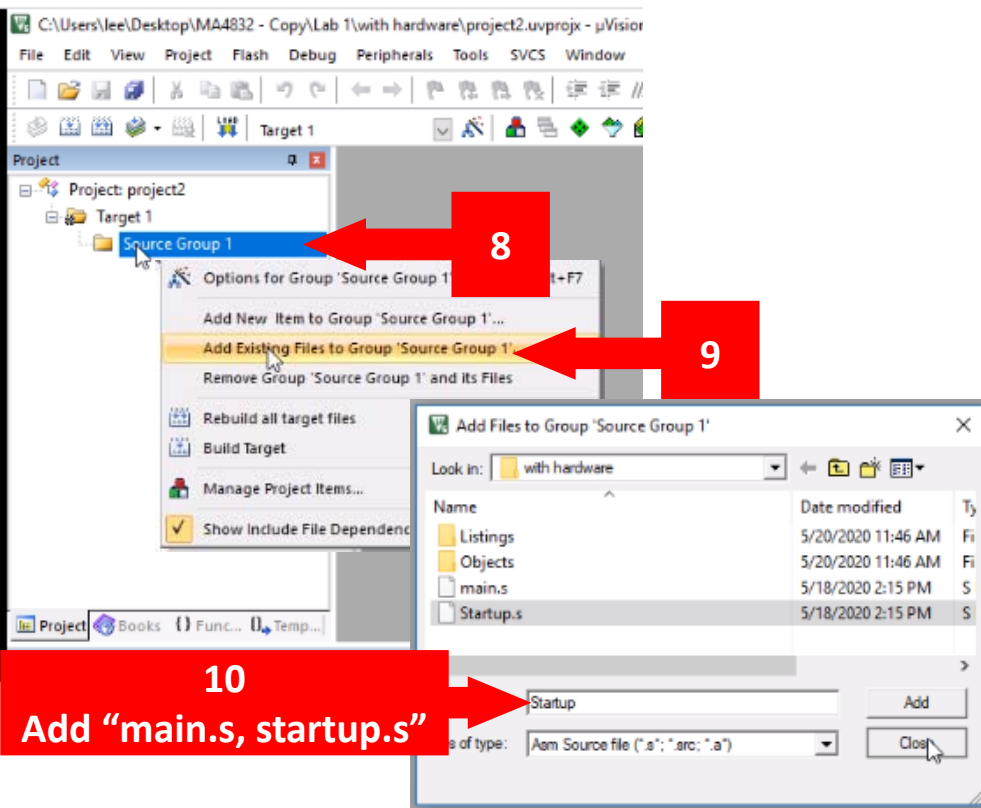
Tiva C Series TM4C123G LaunchPad Evaluation Board



Working with Hardware (Tiva C)



Working with Hardware (Tiva C)



Working with Hardware (Tiva C)

